

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference                                 |  | of Transmittal of International Search Report<br>(20) as well as, where applicable, item 5 below: |
|---|--|---|
| 038602/1087   | ACTION (FOILIT FOILISA)2   | 20) as well as, where applicable, item 5 below.   |
| International application No.   | International filing date (day/month/year)   | (Earliest) Priority Date (day/month/year)   |
| PCT/US 01/04813   | 15/02/2001   | 15/02/2000  |
| Applicant   |  |   |
| CHASH THO I   |  |   |
| SUGEN, INC. et al.  |  |   |
|   |  |   |
| according to Article 18. A copy is being tra                          | n prepared by this International Searching Auth<br>ansmitted to the International Bureau.            | nority and is transmitted to the applicant  |
|   | <u>.</u>   |   |
| This International Search Report consists  It is also accompanied by  |  | report  |
| it is also accompanied by   | a copy of each prior art document cited in this  | report.   |
| Basis of the report   |  |   |
|   | international search was carried out on the bas<br>ess otherwise indicated under this item.          | sis of the international application in the   |
| the international search w<br>Authority (Rule 23.1(b)).               | as carried out on the basis of a translation of the  | he international application furnished to this  |
| With regard to any nucleotide and was carried out on the basis of the |  | ternational application, the international search   |
| <u> </u>  | nal application in written form.   |   |
| filed together with the inte  | rnational application in computer readable form  | n.  |
| furnished subsequently to   | this Authority in written form.  |   |
| furnished subsequently to   | this Authority in computer readble form.   |   |
| the statement that the sub<br>international application a:            | sequently furnished written sequence listing d<br>s filed has been furnished.                        | oes not go beyond the disclosure in the   |
| the statement that the info<br>furnished                              | rmation recorded in computer readable form is  | s identical to the written sequence listing has been  |
| 0 77 0-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-                         | ad umassanda alda (Cas Day I)  |   |
| 2. X Certain claims were four 3. Unity of invention is lack           | nd unsearchable (See Box I).   |   |
| Sinty of invention is face  | king (see box ii).   |   |
| 4. With regard to the title,  |  |   |
| X the text is approved as sui   | bmitted by the applicant.  |   |
|   | hed by this Authority to read as follows:  |   |
|   | ,  |   |
|   |  |   |
|   |  |   |
| 5. With regard to the abstract,                                       |  |   |
| the text is approved as sul   | bmitted by the applicant.  |   |
|   | ned, according to Rule 38.2(b), by this Authorit<br>date of mailing of this international search rep |   |
| 6. The figure of the drawings to be publi                             | •  | <u>- · · · · · · · · · · · · · · · · · · ·</u>  |
| as suggested by the applic  | •  | None of the figures.  |
| because the applicant faile   |  |   |
|   | characterizes the invention.   |   |
|   |  |   |

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention relates to pyrrole substituted 2-indolinone compounds of Formula (I):

$$R^{2}$$
 $R^{3}$ 
 $R^{4}$ 
 $R^{1}$ 
 $R^{6}$ 
 $R^{7}$ 
 $R^{6}$ 
 $R^{5}$ 

and their pharmaceutically acceptable salts which modulate the activity of protein kinases and therefor are expected to be useful in the prevention and treatment of protein kinase related cellular disorders such as cancer.

(I)

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D403/06 A61K31/404

A61P43/00

C07D403/14

C07D401/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07D A61K IPC 7 A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data

| С. ДОСИМ   | ENTS CONSIDERED TO BE RELEVANT   |                       |
|------------|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| х          | US 5 886 020 A (PENG CHO TANG ET AL.) 23 March 1999 (1999-03-23) * column1-3; column 22, line 30-39( SU5408); column 25, line 66 - column 26, line 2 (SU5455); column 26, line 26-29 (SU 5463) * | 1,50,52               |
| X 🔊        | WO 98 50356 A (SUGEN, INC.) 12 November 1998 (1998-11-12) * page 1; page 30, line 1-2; page 44, compound with code 10718/H02 *   | 1,50,52               |
|            | -/   |                       |
| Y Furti    | ner documents are listed in the continuation of box C. X Patent family members are listed in   | in annex.             |

| <u> </u>   |   |
|--|---|
| Further documents are listed in the continuation of box C.   | Patent family members are listed in annex.  |
| Special categories of cited documents:      A' document defining the general state of the art which is not considered to be of particular relevance      E' earlier document but published on or after the international filing date      L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O' document referring to an oral disclosure, use, exhibition or other means      P' document published prior to the international filing date but later than the priority date claimed | <ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul> |
| Date of the actual completion of the international search  24 October 2001   | Date of mailing of the international search report  05/11/2001  |
| Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016   | Authorized officer  Van Bijlen, H   |

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| C.(Continuati | ion) DOCUMENTS CONSIDERED TO BE RELEVANT   |                       |
|---------------|--|-----------------------|
| Category ° (  | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| x ek          | LI SUN ET AL.: "Synthesis and biological evaluations of 3-substituted indolin-2-ones: a novelclass of tyrosine kinase inhibitors that exhibit selectivity toward particular receptor tyrosine kinases"  JOURNAL OF MEDICINAL CHEMISTRY., vol. 41, no. 14, - 1998 pages 2588-2603, XP002181002  AMERICAN CHEMICAL SOCIETY. WASHINGTON., US ISSN: 0022-2623  * page 2594 and 2601: compounds 44 and 48 | 1,50,52               |
| A 💢           | WO 99 61422 A (SUGEN, INC.) 2 December 1999 (1999-12-02) claims  | 1,50,52               |
| Ρ,Χ           | WO 01 37820 A (SUGEN, INC.) 31 May 2001 (2001-05-31) * page 3; table 1-3 *   | 1,50                  |
| P, X 🛞        | WO 00 38519 A (SUGEN, INC.) 6 July 2000 (2000-07-06) * page 141, line 26 - page 142, line 2; claim 18 *  | 1,50                  |
| Ρ, χ          | WO 00 35908 A (F. HOFFMANN-LA ROCHE AG) 22 June 2000 (2000-06-22) examples 39B,116B  | 1                     |
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International application No. PCT/US 01/04813

| Box I     | Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)  |
|-----------|--|
| This Inte | ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:   |
| 1. X      | Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  |
|           | Although claims 54-59 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.  |
| 2.        | Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: |
|           |  |
| 3.        | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).   |
| Box II    | Observations where unity of invention is lacking (Continuation of item 2 of first sheet)   |
| This Inte | ernational Searching Authority found multiple inventions in this international application, as follows:  |
|           |  |
|           |  |
|           |  |
| 1.        | As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.   |
| 2.        | As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.   |
| 3.        | As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:                       |
|           |  |
|           | ·  |
| 4.        | No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:           |
|           |  |
| Remark    | t on Protest  The additional search fees were accompanied by the applicant's protest.  |
|           | No protest accompanied the payment of additional search fees.  |
|           |  |

Information on patent family members

ernational Application No

|    | Patent document<br>ed in search repor | rt  | Publication<br>date |        | Patent family<br>member(s) | Publication date |
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